



SISTEMA DE INFORMAÇÃO SOBRE A
BIODIVERSIDADE BRASILEIRA

Pedro Guimarães (Developer)



1. Brazilian reality
2. Assembly of the development team
3. Development strategy
4. Capacity plan strategy
5. SiB Colombia partnership
6. Canadensys partnership
7. Requirements
8. Status
9. Future



- Federal government project (Ministry of Science, Technology and Innovation);
- Provide publishing structure to Brazil's biodiversity data;
- Build an institutional Portal;
- Build a biodiversity data explorer;



- Assembled before comprehension of the full size of the problem (May 2013);
- Assembled without full grasp of the required effort/schedule;
- Very small dev team:
 - Francisco, Gadelha, Júnior, Daniele, Maira, Danny;
- New to each other;
- No previous biodiversity experience.




*Given the previous conditions, the chosen strategy to start implementation was to **reuse open source software**!*

Hence, the first step was to survey and assess available options!



Portal survey and assessment



Global Biodiversity Information Facility

Free and open access to biodiversity data

507,480,211 records
1,436,894 species
65,335 countries
628 data providers

Sharing biodiversity data for research

Learn more GBIF
Publish your data through GBIF
Technical documentation

Providing evidence for research and decisions

Use applications on GBIF
Biodiversity science
Supporting global policy

Contributing to a global community

Current news pages
How GBIF is funded
Enhancing capacity

Search taxa names and infrastructure pages...

Search

Latest GBIF news

GLOBAL SPECIES GROWTH RECORDS IN GBIF - OVER 500 MILLION

NEW GBIF DATA

GBIF DATA FOR THE WORLD'S MOST DIVERSE COUNTRY

GLOBAL SPECIES GROWTH RECORDS IN GBIF - OVER 500 MILLION

NEW GBIF DATA

GBIF DATA FOR THE WORLD'S MOST DIVERSE COUNTRY

[illegible]

With Brazil's interest in becoming part of GBIF network, opportunity came to enter a **mentoring program!**



SiB Colombia

- Geographically close
- Language similarity
- Consolidated network
- GBIF experience
- Strong business comprehension
- Open source dataportal
- Support availability

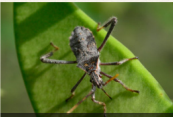


- *Internalizing the code (Forking GitHub projects)*
 - *Implement portuguese translation*
 - *Apply customized front end styles*




Customization


ACCEDA ÁGILMENTE A DATOS PRIMARIOS SOBRE BIODIVERSIDAD PUBLICADOS POR LA RED DE SOCIOS DEL SiB




ESPECIES DE COLOMBIA
Búsqueda de datos para una especie o un grupo de organismos.



CONJUNTOS DE DATOS
Búsqueda de un conjunto de datos.




PUBLICADORES
Búsqueda de un publicador de datos.




SiB
IR AL PORTAL GENERAL

[Seguir a @sibcolombia](#)

[Follower](#) Sign Up to see who your friends are following.



ENCUENTRA EN NUESTRO PORTAL DE DATOS
1.972.843 REGISTROS BIOLÓGICOS 48.366 ESPECIES REGISTRADAS



DEPARTAMENTOS DE COLOMBIA
Información de las especies y registros biológicos en cada departamento, compartidos por nuestros socios a través de la red.

VER DATOS PARA
[AQUÍ](#)

Imágenes cortesía de Buena Vibra Cycling System



Sistema de información sobre Biodiversidad de Colombia
Dirección Calle 28A No. 15-09 Bogotá D.C., Colombia.
Teléfono PBX 57(1) 320 2767
sib@humboldt.org.co

Portal de datos SiB Colombia
Explorar especies de Colombia
Explorar conjuntos de datos
Explorar publicadores de datos
Búsqueda avanzada de registros
¿Cómo usar el portal de datos?

Nuestros servicios
Portal de datos
Portal SiB Colombia
Catálogo de especies
Herramienta de pública de datos (PIT)

SiB Colombia
¿Qué es el SiB?
Equipo coordinador
Comité directivo

Actualidad
Línea de eventos
Talleres y comités
Reporte SiB

Términos de uso **Gobierno en línea**

[f](#) [p](#) [in](#) [YouTube](#)



Entidad coordinadora



iniciativas relacionadas con el SiB



El SiB Colombia es componente temático del SIAC



Ministerio de Ambiente



Ministerio de Agricultura



Ministerio de Salud



Ministerio de Educación



Ministerio de Transportes

Bem-vindos ao Portal de espécies e ocorrências
O Portal de espécies e ocorrências é um serviço que permite acesso rápido a registros de ocorrência e listas de espécies publicados por nossa rede de parceiros.



BUSCA POR ESPECIES



BUSCA POR OCORRÊNCIAS



CONJUNTO DE DATOS




PUBLICADORES DE DATOS



BUSCA POR ESTADOS



PUBLICAÇÃO DE DATOS

 Acesse 521.125 registros no território Brasil, de um total de 53.648 espécies compartilhados pela rede SiBBr. Atualmente, a rede SiBBr conta com um total de 53.648 espécies registradas, 35.739 das quais são relativas a registros no território brasileiro.

Customization

ESPECIES

CONJUNTOS DE DATOS

EXPLORADOR GEOGRÁFICO

PUBLICADORES

CLASIFICACIÓN DE FILO: CYCADOPHYTA

de acuerdo a Global Biodiversity Information Facility: La Clasificación del Portal de Datos de GBIF (basado en la Lista de Verificación Anual de Catalogue of Life, con adiciones provisionales de los recursos de datos de especímenes y observaciones)

Ver:

Información acerca de Cycadophyta

Enviar:

Comentarios a SiB Colombia sobre la clasificación de Cycadophyta

Búsqueda de un nombre científico dentro de la clasificación

TODOS LOS REINOS

Reino: Plantae

ver la página de la información

+ Filio: Cycadophyta

ver la página de la información

+ Clase: Cycadopsida

ver la página de la información

Sistema de información sobre Biodiversidad de Colombia Dirección: Alc. SIA No. 12-09 Bogotá D.C. Teléfono: PBX (5711) 220-2767 sib@humboldt.org.co

Portal de datos SiB Colombia Explorar registros de Colombia Explorar geográficos de registros Explorar conjuntos de datos Explorar publicaciones de datos Búsqueda avanzada de registros (Cómo usar el portal de datos?)

Nuestros servicios Portal de datos SiB Colombia Explorador geográfico de registros Catálogo de especies Herramientas de publicación de datos (PDF)

SiB Colombia (Qué es el SiB?) Equipo coordinador Comité directivo Nuestra red

Actualidad Lista de eventos Talleres y cursos Reporte SiB

iain

iabin

SIAC

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Customization

CONJUNTOS DE DATOS




FILTRAR RESULTADOS

Conjuntos de datos	Registros biológicos	Registros biológicos (Georeferenciados)	Taxones	Especies
A geographic distribution database of Mononychellus mites (Acari: Tetranychidae) on Citrus (Mammifera: eucalyptus)	1,512	1,443	10	4
Arbores y Registros reportados en humedales del departamento de Córdoba Corporación Autónoma Regional de los Valles del Sinú y del San Jorge-CVS	1,040	1,040	133	40
Arbolamiento de Aves Sierra Nevada de Santa Marta - Proyecto Cruzando el Caribe Asociación Selva	6,757	6,466	402	209
Análisis ecológico de la mastofauna en la parte alta del Río Goagua Instituto de Investigaciones Ambientales del Pacífico (IIAP) Von Neumann (IIAP)	27	27	77	27
Aves Acuáticas de los salinos inundables del Meta y Casanare Asociados para el estudio y conservación de las aves acuáticas en Colombia	8,407	8,364	451	201
Aves Acuáticas en el Caribe Colombiano Entre 2007 y 2009 Asociación para el estudio y conservación de las aves acuáticas en Colombia	4,344	4,344	178	83
Aves del Santuario de Fauna y Flora Majuyel entre 2006 y 2013 Asociación para el estudio y conservación de las aves acuáticas en Colombia	81	81	71	27
Aves laguna El Trébol Asociación de Becanos del Casanare - ABC	3,477	3,477	443	209
Aves Marinos y Playeros en el PNN Sangajunga y la Bocana de Icaande entre 2007 y 2009 Asociación para el estudio y conservación de las aves acuáticas en Colombia	1,736	1,733	52	44
Aves Playeros y Otras Aves Asociadas a Arrozales en los Departamentos de Casanare y Meta en 2009 - 2010 Asociación para el estudio y conservación de las aves acuáticas en Colombia	1,894	1,764	243	100
Arquitectura de dos parches de Bosque Seco en el Valle del Cauca Universidad del Valle	1,460	1,460	192	76
Arquitectura en un área perturbada del bosque andino en el Parque Nacional Natural Parícutines de Cali, departamento de Cauca, Valle del Cauca (Colombia) Universidad del Valle	2,363	2,363	350	157
Base de datos de la colección de insectos del Museo de Entomología de la Universidad del Valle	30,171	3,956	1,993	743
Biodiversidad de grupos funcionales de microorganismos en el Parque Nacional Natural de Los Nevados, Colombia Universidad Nacional de Colombia	1,059	1,059	196	47

MONITOR DE USUARIOS

PUBLICADORES

FILTRAR RESULTADOS

Logo	Publicadores de datos	Registros biológicos	Registros biológicos (Georeferenciados)
	Asociación de Becanos del Casanare - ABC Colombia	5,897	5,896
	Asociación GACA Colombia	3,258	3,258
	Asociación para el estudio y conservación de las aves acuáticas en Colombia	17,180	16,973
	Asociación Selva Colombia	6,757	6,466
	Café Verde de Sabana de Torres Colombia	525	525
	Centro Internacional de Agricultura Tropical (CIAT) Colombia	1,512	1,443
	Corporación Autónoma Regional de los Valles del Sinú y del San Jorge-CVS Colombia	13,773	11,918
	Corporación Autónoma Regional de los Valles del Sinú y del San Jorge-CVS Colombia	1,040	1,040
	Corporación Autónoma Regional de los Valles del Sinú y del San Jorge-CVS Colombia	5,887	5,887
	Federación Nacional de Cafeteros de Colombia Colombia	26,792	26,307
	Fundación Alma Colombia	2,363	2,363
	Fundación Biomédica Colombia	1,059	1,059

MONITOR DE USUARIOS

Conjuntos de datos - Portal de especies e ocurrencias - Chromium

Especificación del Portal: Entrada 13.933 - login - Add current link to the - Bring models to Occur - SiB Explorer - Present - Portal de Datos de Bie - Conjuntos de Datos de Bie - Conjuntos de datos - 0 - Thesen - Sitra Altra - R -

Linux Mint - Community - Forums - Blog - Gendervier - Brincote de pohl - I signed - GBIF Test Data P - MooTools HTML - Natural vs. Syn - INSS - Cálculo d - Git - Book - Ruby on Rails Tu - Node.js tutorial - GBIF Developer -

SiBBr BASE DE DATOS DE ESPECIES BETA

Acceso a Información Participar Servicios Legislación Canals

ESPECIES OCORRENCIAS ESTADOS CONSULTAS DE DATOS PUBLICADORES PUBLICACIÓN

¡Hola, persona, los conjuntos de datos

Conjuntos de datos

Todos

Conjuntos de Datos	Ocurrencias (No-geolocalizadas)	Ocurrencias (Geolocalizadas)	Taxones	Especies
Instituto Nacional de Pesquisas da Amazônia - Mycetozoa Collection	20	16	35	16
Instituto Nacional de Pesquisas da Amazônia - INPA				
Instituto Nacional de Pesquisas da Amazônia - Pterofera Collection	70	0	22	16
Museu Paraense Emílio Goeldi - Acari Collection	26	0	16	5
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Amblyptery Collection	149	0	7	1
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Araneae Collection	22,477	0	981	507
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Coleoptera Collection	6,217	0	972	636
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Odonata Collection	2,508	0	75	30
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Ronulid Collection	63	0	9	3
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Schizomida Collection	37	0	10	2
Museu Paraense Emílio Goeldi				
Museu Paraense Emílio Goeldi - Scorpiones Collection	439	0	44	25
Museu Paraense Emílio Goeldi				

Menu

Aplicativos Locais Sistema

Clique para ver o calendário do mês

Conjuntos de dados - Portal de especies e ocurrencias - Chromium

Especificación del Portal: Entrada 13.933 - login - Add current link to the - Bring models to Occur - SiB Explorer - Present - Portal de Datos de Bie - Conjuntos de Datos de Bie - Conjuntos de datos - 1 - Thesen - Sitra Altra - R -

Linux Mint - Community - Forums - Blog - Gendervier - Brincote de pohl - I signed - GBIF Test Data P - MooTools HTML - Natural vs. Syn - INSS - Cálculo d - Git - Book - Ruby on Rails Tu - Node.js tutorial - GBIF Developer -

SiBBr BASE DE DATOS DE ESPECIES BETA




Acceso a Información Participar Servicios Legislación Canals

ESPECIES OCORRENCIAS ESTADOS CONSULTAS DE DATOS PUBLICADORES PUBLICACIÓN

¡Hola, persona, los conjuntos de datos

Publicadores

Todos

Web site oficial	Publicador dos dados	Ocurrencias (No-geolocalizadas)	Ocurrencias (Geolocalizadas)
	Instituto Nacional de Pesquisas da Amazônia - INPA	90	16
	Instituto de Pesquisas Jardim Botânico do Rio de Janeiro Brasil	548,343	134,001
	Museu Paraense Emílio Goeldi	31,977	0

SiB

Sistema de Informação sobre a Biodiversidade Brasileira TELEFONE +55 61 3228-2020 TELEFONE +55 61 3228-5749

PORTAL DO BIODIVERSIDADE Explorar espécies Brasileiras Explorar conjuntos de dados Explorar dados por estado Explorar dados por ocorrência

O SiBBr O que é o SiBBr? Por que participar? Quem é quem? Contato

Serviços Publicação de dados

O SiBBr O trabalho do Global Biodiversity Information Facility O SiBBr - Termos de uso O SiBBr - Site - GitHub

Ministério do Meio Ambiente

Comissão Nacional de Biodiversidade

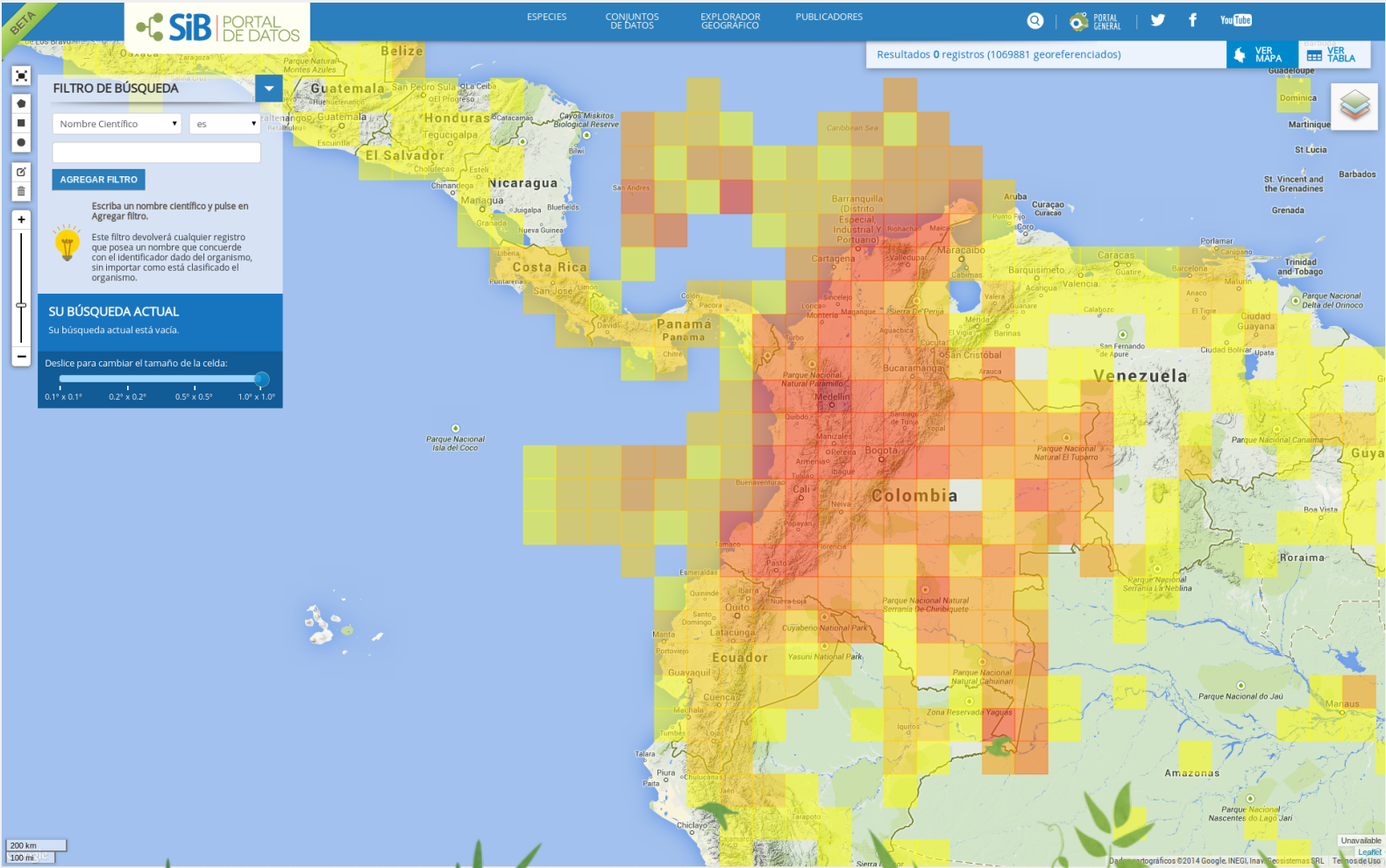
RNP Rede Nacional de Ensino e Pesquisa

INPA Instituto Nacional de Pesquisas da Amazônia

gov

INDE Instituto Nacional de Desenvolvimento Científico e Tecnológico

Ministério do Meio Ambiente



Positive points

- Started getting involved with the GBIF community
- Familiarization with GBIF's and Dwc-A data model and publishing workflow.
- Great support from SiBCo team
- Good functionalities list
- Great GIS explorer
- Familiarization with some state of the art techniques and best practices from SiBCo, specially on the front end of SiBCo's institutional site and explorer
- Discussion of several data quality processes
- Agreed on the necessity of a new harvesting and indexing tool

Negative points

- *Techonogy gap, some non state of the art technologies*
- *Big application stack*
- *Big, confuse, outdated database data model*
- *Inheritance of old non documented code that was no longer useful*
- *Too much code to do litte*
- *Slow code learning curve*
- *Dependency on the HIT, also no longer supported*
- *Small integration to the Visual Explorer (Necessity of data redundancy from dataportal database and SibCo's GIS explorer database)*
- *Little support from GBIF*



Halt! Review team mid/long term strategy for process longevity

Image licenced under Creative Commons: <http://goo.gl/wUWdRm>



- *Release a more controllable/stable data portal*
 - *Change harvesting/indexing process*
 - *Define Brazil's requirements*
 - *Improve development pace*
 - *Update technologies*

1. Search occurrences with filters
2. Navigate through the database's generated taxonomic tree
3. Display in the GIS explorer a heat map for geographic intensity of occurrence for registers with coordinates
4. Display in the GIS explorer points for each occurrence with coordinate
5. Select occurrences by geographic area
6. Download search/filter results
7. Display statistics about a dataset or filtered/selected set of occurrence
8. Browse through publishers
9. Browse through datasets
10. Display instructions about the publishing process
11. Assure users accept data terms before navigating
12. Send feedback to data publisher
13. Show other informations about a given name





Canadensys

- Autonomous stable harvesting/indexing process
 - GIS explorer integration to the data portal
 - Excellent support and communication
 - Reasonable application stack
 - Good list of functionalities
 - Updated technologies
 - Slim data base model
 - Good documentation
 - Modularized code
 - Open source



- *Internalizing the code (Forking GitHub projects)*
 - *Implement portuguese translation*
 - *Apply customized front end styles*
 - *Add SiBBR specific requirements*
 - *Improve common requirements*



SISTEMA DE INFORMAÇÃO BIODIVERSIDADE BRASIL

[Explorador](#)
[Repositório](#)
[Fomentações](#)
[Inglês | Français](#)

[CONHEÇA O SIIBBR](#)
[SERVIÇOS E FERRAMENTAS](#)
[COMUNICAÇÃO](#)
[CONTATO](#)

Todos os 2.094.246 registros

(exibindo apenas registros geocalcados: 819.248)

Visualização no Mapa

Visualizar tabela

Visualizar estatísticas

Criar novo filtro

Nome científico

Filtro começa com:

Telenomus	10516
Platygastridae	8194
Dacnidae	7791
Pillidae	7412
Calliscelio	6511
Ildris	6075
Aves	4334
Dufa	3904
Baeus	3614
Formicidae	3549

Filtros atuais

Não há filtros selecionados.

Status: Customization

Canadensys

data | community

explorer repository tools vscan

Chironomidae (LEMQ LEM0181746)

Occurrence record for: lem specimen, LEM0181746

Normal view Darwin Core view

Classification

Kingdom

Animalia

Phylum

Arthropoda

Class

Insecta

Order

Diptera

Family

Chironomidae

Genus

Chironomus

Scientific name

Chironomus (interpreted from: Chironomidae)

Authorship

Location

Country

Canada

State/Province

Québec

County

Municipality

Locality

Ste Anne-de-Bellevue

Latitude

45.43

Longitude

-73.94

Coord. uncertainty (m)

Min. altitude (m)

Max. altitude (m)

Habitat

"Macdonald College, Tiler"

Date

Date


1954-06-16

Specimen

Collection code

LEMQ

Contact details



canadensys

A network of Canadian biological collections

Project Home Wiki Issues Source

New issue Search Open issues

Template: Explorer - Interface issue

Summary: Enter a one-line summary of the issue

Description: (This is the template to report an interface issue for the Canadensys explorer. If you want to report another issue, please change the template above.)

What is the URL of the page where the problem occurs?

What steps will reproduce the problem?

What is the expected output? Any idea what might be causing the problem?

Attach a file

Reporter: tgspeped@gmail.com

Submit issue Discard

Terms - Privacy - Project Hosting Help

Powered by Google Project Hosting

SIBBR

BRASIL

Acesso à Informação

Participar Serviços Legislação Canais

CONEXÃO O SIBBR

SERVIÇOS E FERRAMENTAS

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Explorador Repositório Ferramentas

login | Criar conta

Telenomus (Insects OSUC 374511)

Registro de ocorrência para : glaf-0044220983

Visão interpretada Visão original Outras informações sobre o nome Detalhes do contato

Classificação

Reino

Animalia

Filo

Arthropoda

Classe

Insecta

Ordem

Hymenoptera

Família

Scelionidae

Gênero

Telenomus

Nome científico

Telenomus (interpretado de: Telenomus Haliday, 1833)

Autor

Haliday, 1833

Localização

País

Não fornecido

Estado/Provincia

Piauí

Distrito

Mequique

Município

Não fornecido

Localidade


Cauasã, 01°44'28"S 51°42'21.3"W, P05050, trail, Ferreira Penna Scientific Station, Mequique Mpio., PA, Brazil

Latitude

-1.7411

Longitude

-51.4509



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Comentários

Envie-nos uma mensagem com críticas, sugestões, elogios, sobre algo que deseja corrigir, melhorar, notificar, etc. Assim que possível nossa equipe de desenvolvedores entrará em contato.

Nome:

E-mail:

Mensagem:

Envie

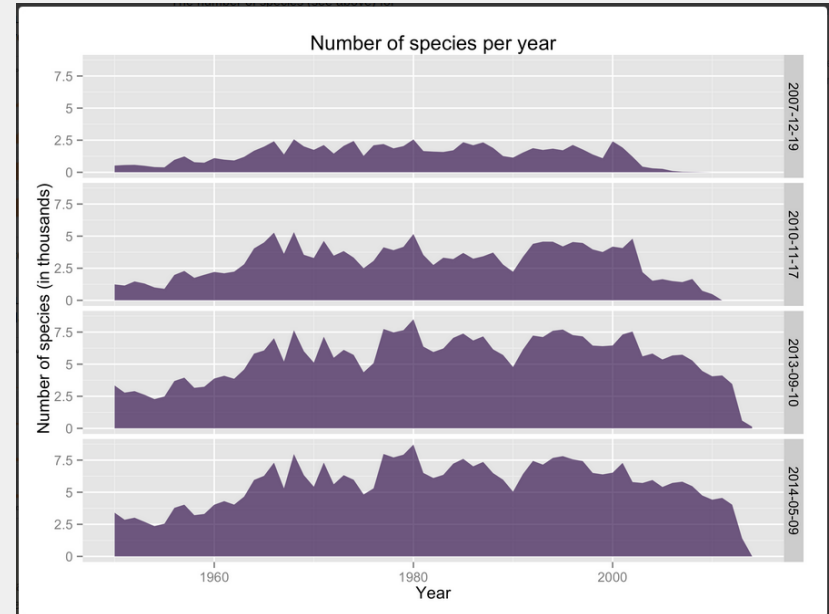
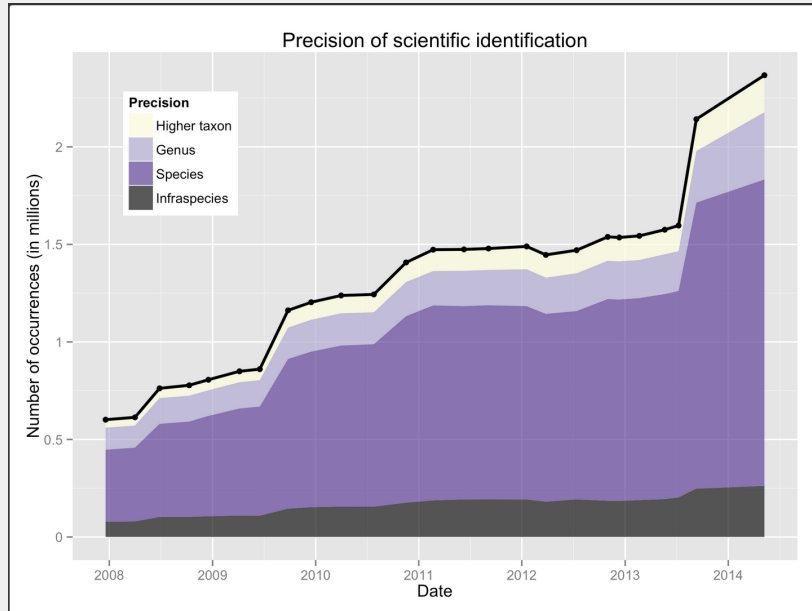
- Release data portal (explorer)
- Release institutional portal
- Add data quality report and tools to the portal
- Implement full list of requirements



- Cooperate on the development of a new community harvesting and indexing tool;
- Cooperate in definition, improvement and implementation of data quality best practices and tools;
- Implement cherry picked functionalities from other portals to the current code ALA, GBIF, SibCo, etc.



- GBIF analytics



ALA dashboard



- Species files

BETA

SiB

CATÁLOGO DE ESPECIES

GRUPO BIOLÓGICO

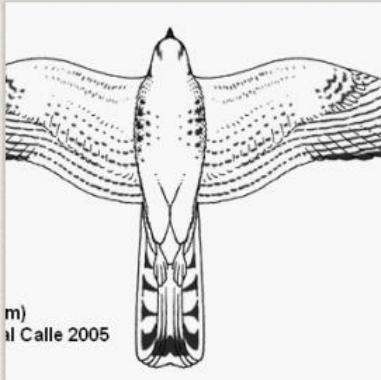
ORDENAR

Buscar especies

PORTAL GENERAL

YouTube

MOSTRANDO 1200 DE 3900 FICHAS




m)
al Calle 2005

Falco sparverius 231
L., 1758

Reino Animalia > Phylum Chordata > Clase Aves >>
Orden Falconiformes >> Familia Falconidae >> Género Falco >> Especie Falco sparverius

Nombres comunes: American Krestel, cernícalo.

Departamentos: Tolima, Cauca, Valle del Cauca, Caldas, Cesar, Guajira, Norte de Santander, Caquetá, Santander, Meta, Nariño, Cundinamarca, Huila, Vichada, Bolivar, Antioquia, Boyacá.




© Robin Schiele

Cathartes burrovianus 188
Cassin, 1845

Reino Animalia > Phylum Chordata > Clase Aves >>
Orden Falconiformes >> Familia Cathartidae >> Género Cathartes >> Especie Cathartes burrovianus

Nombres comunes: Guala, Yellow-headed Vulture, Guala de cabeza amarilla.

Departamentos: Valle del Cauca, Guajira, Caquetá, Amazonas, Meta, Bolivar.




Adiantum raddianum 1174
K. Presl

Reino Plantae > Clase Filicopsida >> Orden Polypodiales >> Familia Pteridaceae >> Género Adiantum >> Especie Adiantum raddianum

Nombres comunes: Adianto, Arañuela, Capilaria, Capillera, Cilantrillo, Culantrillo de pozo, Falzia.

Departamentos: Tolima, Cauca, Valle del Cauca, Caldas, Santander, Nariño, Cundinamarca, Huila, Quindío, Antioquia, Boyacá, Magdalena.




http://commons.wikimedia.org/wiki/File:Mentha_spicata1.jpg#metadata

Mentha spicata 998
L.

Reino Plantae > Clase Magnoliopsida >> Orden Lamiales >> Familia Lamiaceae >> Género Mentha >> Especie Mentha spicata

Nombres comunes: Hierba buena, Hierbabuena, Menta, Yerba buena, Yerbabuena.



© G. U. Tolkmann

Logo 1

Logo 2

Logo 3

Logo 4

Logo 5

Logo 6

Logo 7

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Logo 9

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Logo 1038

Logo 1039

Logo 1040

Logo 1041

Logo 1042

Logo 1043

Logo 1044

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Logo 1070

Logo 1071

Logo 1072

Logo 1073

Logo 1074

Logo 1075

Logo 1076

Logo 1077

Logo 1078

Logo 1079

Logo 1080

Logo 1081

Logo 1082

Logo 1083

Logo 1084

Logo 1085

Logo 1086

Logo 1087

Logo 1088

Logo 1089

Logo 1090

Logo 1091

Logo 1092

Logo 1093

Logo 1094

Logo 1095

Logo 1096

Logo 1097

Logo 1098

Logo 1099

Logo 1100

Logo 1101

Logo 1102

Logo 1103

Logo 1104

Logo 1105

Logo 1106

Logo 1107

Logo 1108

Logo 1109

Logo 1110

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Logo 1115

Logo 1116

Logo 1117

Logo 1118

Logo 1119

Logo 1120

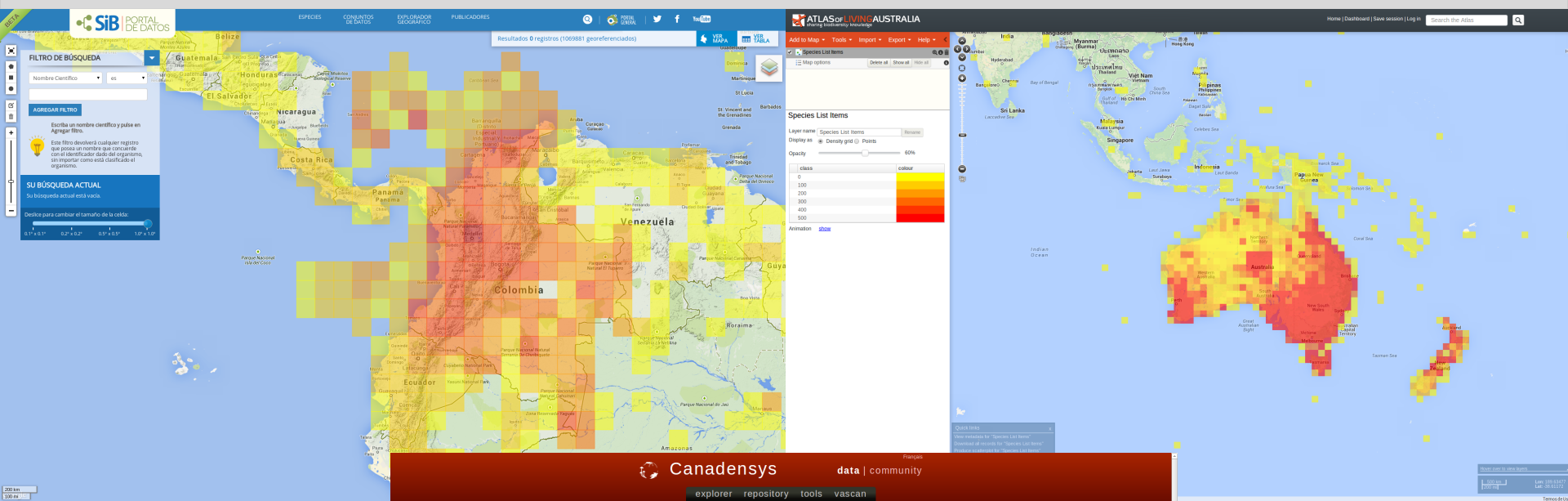
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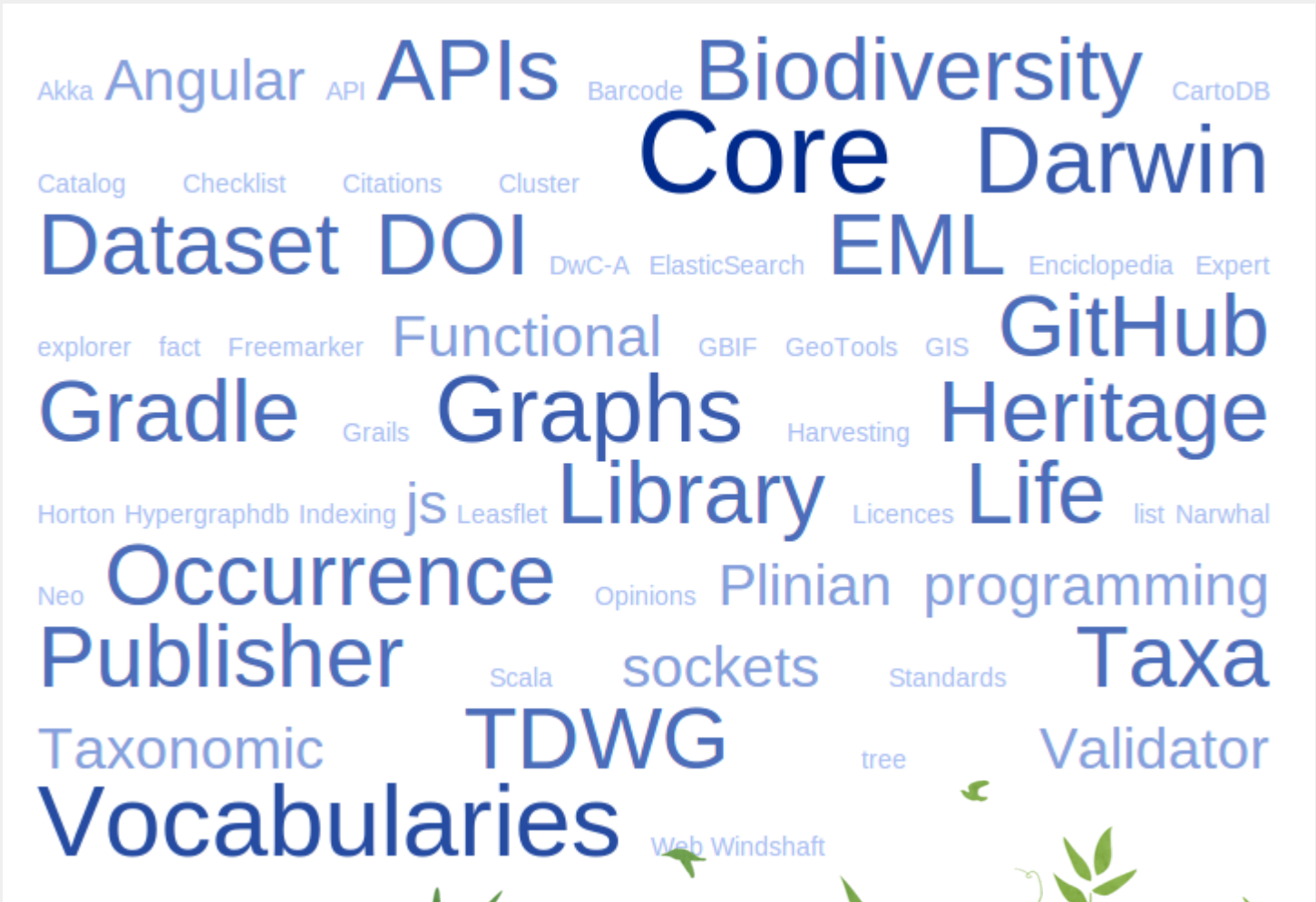
Logo 1122

Logo 1123

Logo 11

Future: Examples







<http://www.sibbr.gov.br>

Gratidão! Gratitudo! Gracias!

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